ABSTRACT

A constant torque split is maintained between a pair of drive motors for the photoreceptor belt of an electrophotographic printing machine. By varying the voltage applied to the motors according to the speed of the photoreceptor belt, the torque applied by each motor can be continuously balanced at a predetermined relationship to apply a constant torque and the desired speed may be accurately maintained. To better refine the implementation, the relationship include a ratio and an offset which may be applied, to one of the motors. Furthermore, this offset is ramped up during motor acceleration to optimize motion quality and system performance.